

Appl. No. 10/802,505
Response Dated February 7, 2006
Reply to Office Action dated October 7, 2005,

Amendments to the Claims

The following listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

Claims 1-39 (Canceled)

Claims 40-43 (Canceled)

Claim 44 (Canceled)

Claims 45-57 (Canceled)

Claims 58-59 (Canceled)

Claims 60-70 (Canceled)

Claim 71 (Canceled)

Claims 72-75 (Canceled)

Claims 76-77 (Canceled)

Claim 78. (New) A trawl which during field operations in a water entrained environment becomes disposed about a central axis, the trawl comprising:

a plurality of mesh cells, each mesh cell including at least
5 three mesh bars, during field operations of the trawl in a water entrained environment at least a portion of at least one of the mesh bars of at least one of the mesh cells generates hydrodynamic lift that aids in bettering a performance characteristic of a trawl system, the at least one of the mesh cells which has at least one
10 mesh bar that generates hydrodynamic lift including:

- a. a first product strand forming a first mesh bar of the at least one mesh cell;
- a. a second product strand forming a second mesh bar of the at least one mesh cell; and
- 15 b. a mechanical connection coupling together the first and the second product strands;

whereby coupling together the first and the second product strands by the mechanical connection betters the performance characteristic of the trawl which is selected from a group
20 consisting of increased trawl volume, improved trawl shape, reduced vibration, reduced noise, and reduced drag.

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Claim 79. (New) The trawl of claim 78 wherein the first product strand is densely laid.

Claim 80. (New) The trawl of claim 78 wherein the first product strand has been heat-set.

Claim 81. (New) The trawl of claim 78 wherein the first product strand includes a bonding agent.

Claim 82. (New) The trawl of claim 81 wherein the bonding agent is a polymeric material.

Claim 83. (New) The trawl of claim 81 wherein the bonding agent is a urethane polymeric material.

Claim 84. (New) The trawl of claim 78 wherein the mechanical connection is a clamp.

Claim 85. (New) An improved method for catching fish with a trawl system which during field operations in a water entrained environment becomes disposed about a central axis, the improved fish catching method comprising the steps of:

- 5 a. assembling the trawl system by combining components
 selected from a group consisting of a trawl, upper
 bridles and frontropes, the trawl including a plurality
 of mesh cells, each mesh cell including at least three
10 mesh bars, during field operations of the trawl in a
 water entrained environment at least a portion of at
 least one of the mesh bars of at least one of the mesh
 cells generating hydrodynamic lift that aids in bettering
 a performance characteristic of a trawl system, the at
 least one of the mesh cells which has at least one mesh
15 bar that generates hydrodynamic lift including:
 i. a first product strand forming a first mesh bar of
 the at least one mesh cell;
 ii. a second product strand forming a second mesh bar
 of the at least one mesh cell; and
20 iii. a mechanical connection coupling together the first
 and the second product strands; and
 b. from a vessel disposed on a surface of a body of water:
 i. deploying into the body of water as part of the
 trawl system the first and the second product
25 strands forming mesh bars of the at least one mesh
 cell; and

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ii. propelling at least the first and the second product strands forming mesh bars of the at least one mesh cell through the body of water;

30 whereby coupling together the first and the second product strands by the mechanical connection betters the fish catching method by improving the performance characteristic of the trawl which is selected from a group consisting of increased trawl volume, improved trawl shape, reduced vibration, reduced noise, and
35 reduced drag.

Claim 86. (New) The improved method for catching fish with a trawl system of claim 85 further comprising the step of selecting the first product strand to be densely laid.

Claim 87. (New) The improved method for catching fish with a trawl system of claim 85 further comprising the step of selecting the first product strand to be heat-set.

Claim 88. (New) The improved method for catching fish with a trawl system of claim 85 further comprising the step of selecting the first product strand to include a bonding agent.

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Claim 89. (New) The improved method for catching fish with a trawl system of claim 88 further comprising the step of selecting a polymeric material for the bonding agent.

Claim 90. (New) The improved method for catching fish with a trawl system of claim 88 further comprising the step of selecting a urethane polymeric material for the bonding agent.

Claim 91. (New) The improved method for catching fish with a trawl system of claim 85 wherein the mechanical connection is formed by clamping.